



Science



Intent

Science has changed our lives and is vital to the world's future prosperity. In line with the National Curriculum, we believe that all pupils should be taught essential aspects of the knowledge, methods, processes and uses of Science.

At Harbinger, our Science curriculum aims to increase pupils' knowledge and understanding of our world, and develop skills associated with the five areas of scientific enquiry. It will develop the natural curiosity of the child, encourage respect for living organisms and the physical environment and provide opportunities for critical evaluation of evidence.



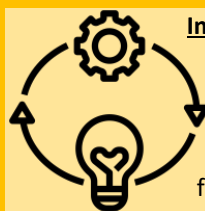
SEND Provision

SEND support is provided in line with our whole school commitment to inclusion. To remove barriers to learning, lessons are differentiated through adult support, through the type of task set, or through the resources that will be available when the class teacher deems necessary. Children that are not secure can then be given additional activities to provide them with opportunities to show that they are secure, possibly gathering evidence in a different way, for example verbally in a small group context.



Enrichment

We enhance the Science Curriculum with extracurricular activities and enrichment opportunities such as: educational trips related to Science learning, visits from scientists to provide presentations or workshops to children, and a whole school celebration of Science during National Science Week.



Implementation

We follow the Science National Curriculum programs of study, so each year group studies a new topic each half term. Progression of knowledge in each topic and working scientifically skills are adapted from PLAN primary science resources.

Once all units have been taught in the year, children will learn about scientists related to the curriculum for their year group in order to consolidate their knowledge gained throughout the year. Knowledge organisers are used for each unit to enable children to make links with prior learning, understand and retain new knowledge and skills, and be able to understand and use vocabulary related to the topic. Staff at Harbinger create a positive attitude to Science learning within their classrooms and the wider school environment.

Assessment

Throughout each unit of work, teachers use a variety of assessment strategies to assess children's knowledge against the learning objective that describe age-related expectations and outcomes.

Monitoring

The Science Lead and SLT will monitor the teaching and learning of Science in line with the school development plan and the expectations of our curriculum intent. Monitoring will take place in the following ways: work scrutinies, planning scrutinies, lesson observations & pupil conferencing.

CPD

The Science Lead will lead on the dissemination of good practice in the subject by leading INSET, staff meetings and team-teaching lessons to support teacher's subject knowledge. The school's monitoring, evaluation and development schedule provides an overview of the Science-related staff meetings, which develop teachers' professional subject knowledge. The Science Lead will ensure that teachers feel equipped to teach Science effectively and confidently.

Impact

Our children will:



- Demonstrate a positive enthusiastic approach to Science
- Acquire problem-solving and enquiry skills
- Experience a range of scientific enquiries
- Have inquisitive minds and a natural curiosity about the world around them
- Be observant and record findings using a range of equipment
- Use precise scientific language to demonstrate understanding of words around them and scientific concepts
- Report and represent information and findings in a logical manner
- Be prepared for the next stage of their Science education